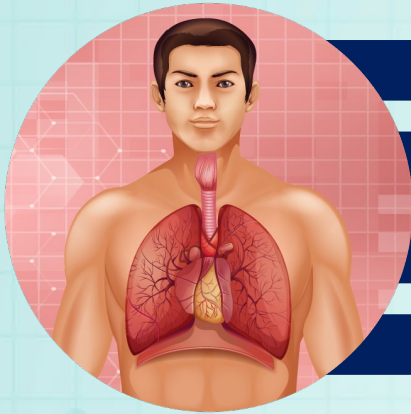




## Mobile AI Enabled Respiratory Screening



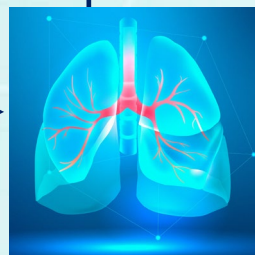
329 Million affected by COPD globally

19.5 lakh TB cases

65 Million in India live with COPD

5 lakh TB-related deaths in India

### Audiometric Analysis using Machine Learning



#### General Lung Health: Spirometry+

- Respiratory Problem: Yes/No
- Pattern: Obstructive/Restrictive
- Severity: High/Medium/Low
- FEV1 and FEC
- FEV1/FEC Ratio

#### General Lung Health: Rich Data

- Wet Cough Count
- Dry Cough Count
- Lung Health Index (LHI®)
- Cough & Energy Plots
- Spectrograms

#### Disease Prediction

- COVID-19
- Pulmonary TB
- COPD
- Bronchitis
- Asthma
- Pneumonia
- ILD

Respiratory Questionnaire

Machine Learning  
Tens of thousands of Data Points

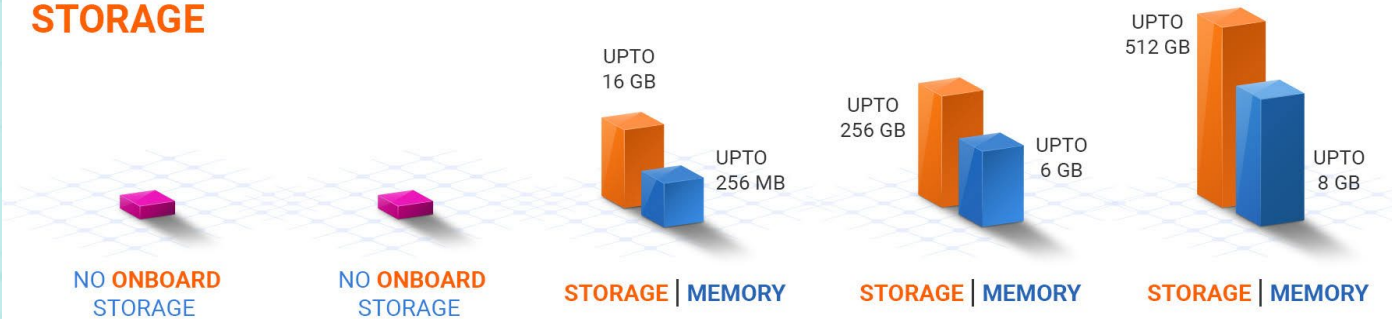
# EVOLUTION FROM 1G TO 5G



## DEPLOYMENT YEAR



## STORAGE



## OUTCOMES - NORTH EAST'S SDG 2030 GOALS

S. No.	Parameter	Impact
1.	SDG 3 - Good Health and Well Being	<ul style="list-style-type: none"> <li>✓ Reduce Cost of Treatment .</li> <li>✓ Reduce Out of Pocket especially travel and accommodation costs for Diagnostics Tests in other cities / states.</li> <li>✓ Improves Quality Of Community Health Screening In Remote Areas.</li> <li>✓ At Home Long Term Care of Senior Citizens With Multiple Co Morbidities.</li> <li>✓ Helps overcome treatment barriers on account of lack of availability / limited availability of Doctors / Medical Technicians / Expensive Machinery.</li> </ul>
2.	SDG 4 - Quality Education	<ul style="list-style-type: none"> <li>✓ Train Youth From the Northeast In Next Generation Telecom Ecosystem for self-employment/job opportunities etc.</li> <li>✓ Improved Quality of Teaching By Healthcare / Educational Institutions by enabling the use of immersive learning tools like AR/VR/MR etc.</li> <li>✓ MOOC Courses to remove barriers to access to knowledge in an emerging knowledge economy.</li> </ul>
3.	SDG 5 - Gender Equality	Open New Economic Opportunities for Women (Special focus community healthcare / agriculture / handloom & handicrafts). * Report of GSMA [Global System for Mobile Communications] says that there is a considerable gender gap in mobile ownership (14%) and mobile internet use (41%) wherein lack of awareness and digital skills are among the top barriers to <i>mobile internet adoption and usage among women</i> .
4.	SDG 9 - Industry, Innovation & Infrastructure	<ul style="list-style-type: none"> <li>✓ SME Ecosystem to Make, Repair, Recycle Next Generation Products Like IoT Devices.</li> <li>✓ 5G Labs can be used for local youth for innovations.</li> </ul>
5.	SDG 12 - Responsible Consumption & Production	<ul style="list-style-type: none"> <li>✓ Promote Recycling of E Components.</li> <li>✓ Reduce GHG (Green House Gas Emissions) since 5G Equipment's consume less energy compared to earlier Generation of Equipment's.</li> </ul>